

DIFFERENTIAL PRESSURE DEVICE

ORIFICE PLATES WITHOUT CARRIER RINGS

DATA SHEET

FVB

Tapping of differential pressure is done by this D and D/2 tap orifice. Since orifice plate can be installed directly to flange of pipe, flow measurement by this orifice plate can be performed more economically than by orifice plates with rings, and it is generally suited for large diameter pipes.



SPECIFICATIONS

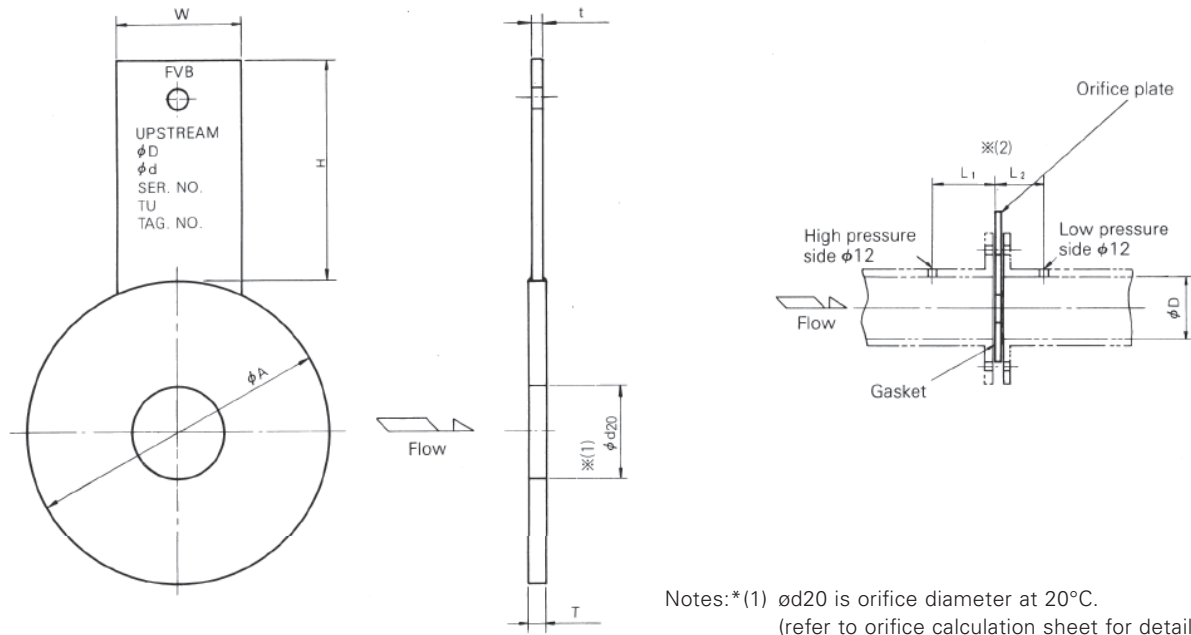
- Type: D and D/2 taps
- Calculation standard: According to JIS Z 8762-1995 (ISO 5167-1:1991)
- Nominal pipe size: 150A to 1000A
- Form: Orifice plate with tab handle
- Main material: Plates; JIS SUS304, SUS316 or SS400
- Connection method: Connection flange; JIS 2, 5, 10, 20, 30, 40, *63K ANSI 150, 300, 400, 600Lb
- Working conditions: Working pressure; 2MPa or less
Working temperature range; -10 to 300°C (depends on the kind of fluid)

CODE SYMBOLS

1 2 3 4 5 6 7 8 9 10 11 12 13													Description				
F	V	B					3	-	0							Pipe diameter [mm]	
			0	1	5	0										Enter pipe size in 4th to 7th digits	
			1	0	0	0											
																Orifice plate material	
										S						SUS304 (JIS stainless steel)	
										W						SUS316 (JIS stainless steel)	
										E						SS400 (JIS steel)	
																Flange standard	
																Q	JIS 2K
																P	JIS 5K
																J	JIS 10K
																K	JIS 20K
																L	JIS 30K
																M	JIS 40K
															Note (2)*	N	JIS 63K
															Note (2)*	A	ANSI 150Lb
																B	ANSI 300Lb
																C	ANSI 400Lb
															Note (2)*	D	ANSI 600Lb
																Z	Other flange standard
																	Treatment
																Y	None
															Note (1)**	A	Oil repulsion treatment ⁽²⁾

Notes:
 (1) Designate material SUS304 (code S) for orifice plates in case of oil repulsion treatment
 (2) * : Nonstandard

OUTLINE DIAGRAM (Unit:mm)



Notes:*(1) $\phi d20$ is orifice diameter at 20°C.
 (refer to orifice calculation sheet for details.)
 (2) $L_1=\phi D, L_2=\phi D/2$
 (3) For \square : Contact with Fuji.

Nominal pipe diameter	A							H	T	W	t
	JIS flange										
	A	B	2K	5K	10K	30K	40K				
150	6	—	214	220	20K	30K	265	105	3	38	2
200	8	—	260	270	238	251	315	105	4	38	2
250	10	—	325	333	283	296	380	120	4	44	3
300	12	—	370	378	356	360	434	120	4	44	3
350	14	—	413	423	406	420	479	120	4	44	3
400	16	—	473	486	450	465	534	120	4	44	3
450	18	535	533	541	510	524	—	160	5	44	5
500	20	585	583	596	575	—	—	160	5	60	5
550	22	643	641	650	630	—	—	160	5	60	5
600	24	693	691	700	684	—	—	160	5	60	5
650	26	748	746	750	734	—	—	160	5	60	5
700	28	798	796	810	—	—	—	160	5	60	5
750	30	856	850	870	—	—	—	160	6	60	6
800	32	906	900	920	—	—	—	160	6	60	6
850	34	956	957	970	—	—	—	160	6	60	6
900	36	1006	1000	1020	—	—	—	180	8	60	8
1000	40	1106	1100	1124	—	—	—	180	8	60	8
1100	44	1216	1210	1234	—	—	—	180	10	75	10
1200	48	1326	1320	1344	—	—	—	180	10	75	10
1350	54	1481	1475	1497	—	—	—	180	12	75	12
1500	60	1636	1630	1657	—	—	—	180	12	75	12

*(3)

ORDERING INFORMATION

1. Code symbols
2. Kind, composition and density of fluid
3. Temperature, pressure, relative humidity and viscosity (heat insulation index for gas) of fluid
4. Flow rate (maximum, normal, minimum)
5. Instrument scale
6. Inside diameter (measured value) and material of piping
7. Type and maximum differential pressure (for exciting instrument) of transmitter to be connected
8. Size of pipe flange for insertion of orifice
9. Permanent pressure loss and other restricted items
10. Calculation standard can be calculated for JIS Z 8762-1969.
(When ordering, please specify the above items in the specification sheet.)

⚠ Caution on Safety

*Before using this product, be sure to read its instruction manual in advance.

Fuji Electric Co., Ltd.

**International Sales Div
Sales Group**

Gate City Ohsaki, East Tower, 11-2, Osaki 1-chome,
Shinagawa-ku, Tokyo 141-0032, Japan

<http://www.fujielectric.com>

Phone: 81-3-5435-7280, 7281 Fax: 81-3-5435-7425

<http://www.fujielectric.com/products/instruments/>